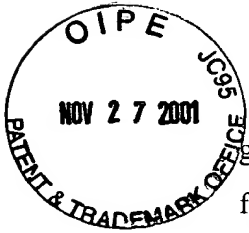


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genomic DNA was similarly performed, using 200 ng of genomic DNA instead of first strand cDNA.

VI. Comparison of expression levels by semi-quantitative RT-PCR

To compare the expression of individual genes, RT-PCR was performed using
 5 primer pairs designed based on the sequence of the cDNA clones that was included on
 the GeneFilter. The PCR was done from 25 to 40 cycles with increments of 5-cycles,
 except for β_2 -microglobulin, which was done at 18, 22, 25, and 30 cycles. The PCR
 reaction products were analyzed on a 3% agarose gel stained with ethidium bromide,
 and the amount of DNA was quantitated as band intensities using GelDoc software
 10 from BioRAD (Hercules, CA). The level of expression of each gene was normalized
 against the level of β_2 -microglobulin expression between these two species. The
 relative expression between human and baboon cDNA was estimated by measuring
 the ratio of intensity of DNA product, comparing only those measurements which fell
 within the linear range of PCR amplification cycles; multiple determinations, when
 15 performed, were averaged. The sequences of Forward (F) and Reverse (R) primers
 are: Transmembrane 4 superfamily member 4 (TM4SF4), F-
 AAGCGATTTGCGATGTTACCTC --(SEQ ID NO: 1)--, R-
 GAGGCTCTCGGCACTTGTTCC --(SEQ ID NO: 2)--; Protein tyrosine kinase 9
 (PTK9), F-GATTCCTTTGTTTTACCCCTGTTGGAG --(SEQ ID NO: 3)--, R-
 20 TTGCTGC ATACAACATTTTTTGAC --(SEQ ID NO: 4)--; Cytochrome P450,
 subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile)
 (CYP1B1), F-GTAATGGTGTCCCAGTATAA GTAATGAG-3'--(SEQ ID NO: 5)--,
 R-TCATGAATGCTTTTAGTGTGTGC-3'--(SEQ ID NO: 6)--; Colony stimulating
 factor 3 receptor (granulocyte) (CSF3R), F-CTGAAGTTATAGGAAACAAGC
 25 AAAAAAGGC --(SEQ ID NO: 7)--, R- GCCC ATGACTAAAAACTACCCCAGC -
 --(SEQ ID NO: 8)--; Beta-2-microglobulin (B2M), F- CCTGAATTGCTA
 TGTGTCTGGG --(SEQ ID NO: 9)--, R- TGATGCTGCTTACATGTCTCGA --
 (SEQ ID NO: 10)--.
 R82595, F : GCTCGTAGCAACATTTTCGTAATAGCC --(SEQ ID NO: 11)--, R :
 30 GGACCCATCGTGGTT ACCGTG --(SEQ ID NO: 12)--; AA676327, F-
 ATATTTTCGGTAACTTTTGACCCTAAG --(SEQ ID NO: 13)--, R: CAGGGGCAA
 TTTTGAGGTATG --(SEQ ID NO: 14)--; R85439, F:

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GGCAGGGCTCTAAATGGAAGTAGTTG --(SEQ ID NO: 15)--, R: CTCAG
AAGTGTTTTGTAGCAAGGCTGC --(SEQ ID NO: 16)--, AA487912, F:
AAACAGTGACTTATCCCGCTAC CC --(SEQ ID NO: 17)--, R:
GGGTGGGTTTACTCTTAGAATCGC --(SEQ ID NO: 18)--; N25920, F:
5 CAGATGGAGGGTTTATG AGTGAGGCTGG --(SEQ ID NO: 19)--, R:
GCTTGTTCTTTGGGGATTGTGGTGC --(SEQ ID NO: 20)--; R05886, F: TAGGCG
TGAGAAGCATATAGAGGC --(SEQ ID NO: 21)--, R: AGTGAATAAGCAAGAAATCAGGGTG
--(SEQ ID NO: 22)--; N74363, F: ACAAAGGGCTGTTTACTGAGAGACCTGAGC
--(SEQ ID NO: 23)--, R: GGCATAACTCACACCCATT TGTTTACCTGC --(SEQ
10 ID NO: 24)--; N55359, F: GGCAGAATCTACTGGGCATCTTGTAATC --(SEQ ID
NO: 25)--,
R: AGTTTTGGTGGTCCAGGGAAGGTAC --(SEQ ID NO: 26)--.